

Advanced Elastomer Systems Santoprene® 8281-55 Thermoplastic Rubber (discontinued **)

Category : Polymer , Thermoplastic , Elastomer, TPE , Thermoplastic Elastomer, Melt-Processible Rubber

Material Notes:

Description: A colorable thermoplastic medical grade elastomer. It has USP Class VI Certificate of Compliance for biocompatibility and can be processed using injection molding, extrusion, or other melt processing techniques. Supplied as free-flowing pellets in 25 kilogram (55 pound) moisture barrier bags. Features: Non-hygroscopic product, requires little to no drying before processing Neutral, easy coloring formulation USP Class VI Certificate of Compliance Drug Master File established with FDA Product Notes: Values are for injection molded plaques, side gated. 82.6 mm x 117.5 mm x 3 mm Information provided by Advanced Elastomer Systems. Advanced Elastomer Systems is now a part of ExxonMobil. This grade was removed from the Advanced Elastomers Systems standard product line before the ExxonMobil acquisition.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Advanced-Elastomer-Systems-Santoprene-8281-55-Thermoplastic-Rubber-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	0.920 g/cc	0.0332 lb/in ³	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	55	55	5 seconds; ASTM D2240
	60	60	5 seconds, After oven air aging 168 hours @ 150°C; ASTM D2240
Tensile Strength at Break	2.972 MPa	431.1 psi	After oven air again 168 hrs. @ 150°C; ASTM D412
	3.30 MPa	479 psi	Across flow; ASTM D412
Tensile Strength, Yield	1.50 MPa	218 psi	At 100% elongation, across flow; ASTM D412
Elongation at Break	382.5 %	382.5 %	After oven air aging 168 hrs. @ 150°C; ASTM D412
	450 %	450 %	Across flow; ASTM D412
Tear Strength	21.0 kN/m	120 pli	73°F; ASTM D624
Compression Set	21 %	21 %	73°F, 170 hr, Method B; ASTM D395
Tensile Set	8.0 %	8.0 %	ASTM D412

Thermal Properties	Metric	English	Comments
Brittleness Temperature	-60.0 °C	-76.0 °F	ASTM D746

Processing Properties	Metric	English	Comments
Processing Temperature	177 - 232 °C	351 - 450 °F	
Drying Temperature	82.0 °C	180 °F	Desiccant Dryer
Dry Time	3 hour	3 hour	Desiccant Dryer

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